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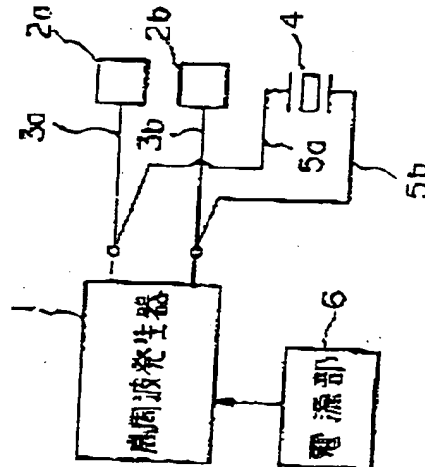
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(54) BONE HEALING PROMOTER

(57) Abstract:

PURPOSE: To further promote a formation of a temporary bone and a healing of a bone as compared with a case using a high frequency irradiation alone by inducing a high frequency current in a broken part of a bone while a piezoelectricity is generated by an ultrasonic energy.

CONSTITUTION: A high frequency generator 1 generates a high frequency and an output level and the frequency can be varied optionally. Electrodes 2a and 2b are connected to an output end of the high frequency generator 1 through cords 3a and 3b and one end of an ultrasonic oscillation element 4 is connected to one output end of the high frequency generator 1 through a cord 5a while the other end thereof is connected to the other output end of the high frequency generator 1 through a cord 5b. Here, the electrodes 2a and 2b are arranged as opposed to each other on a skin sandwiching the broken part of a bone while the ultrasonic oscillation element 4 is arranged on the skin at the right angle to a direction of opposing the electrodes 2a and 2b to each other. Then, when a power source switch is closed to an ON position, a high frequency is applied between the electrodes 2a and 2b to induce a high frequency current in the broken part of the bone. At the same time, an ultrasonic wave is irradiated to the broken bone part from the ultrasonic oscillation element 4 thereby generating a piezoelectricity in the bone at the broken part.



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